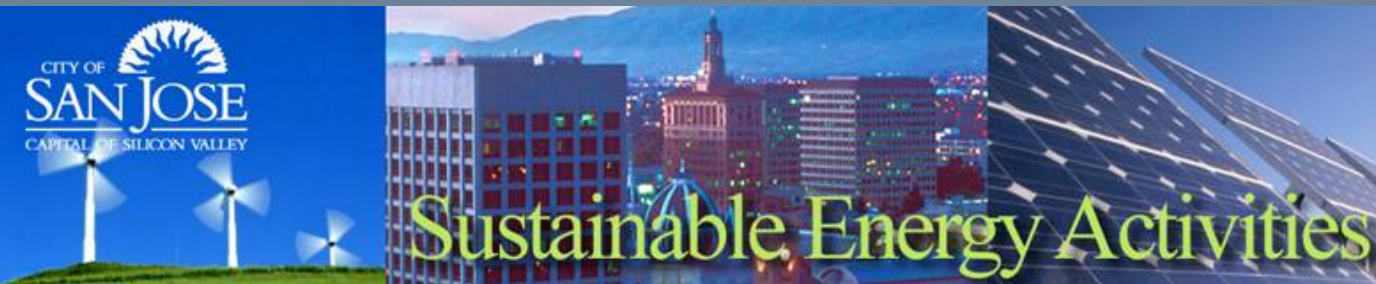


# Solar and Energy Efficiency Study Session City of San Jose

## *Overview of City Efforts*

January 25, 2007



# **The purpose of the Study Session is to:**

- **Provide information on City efforts related to energy efficiency improvements and solar/renewables in city facilities.**
- **Hear from State of California and PG&E representatives on new opportunities to improve efficiency, use solar and reduce greenhouse gas emissions.**
- **Hear from municipal and private sector representatives of their efforts to save energy.**
- **Overview of Clean Technology as an emerging industry cluster.**
- **Obtain guidance from Council on the 2007-08 Sustainable Energy Action Plan.**



# *Supportive City Policies*

- **Sustainable City Policy—General Plan**
- **Green Building Policies**
- **Environmentally Preferable Procurement Policy**
- **United Nations Environmental Accords**
- **Sustainable Energy Policies**



# *Overall Reductions in City Facilities since 2001*

- Over \$20M in estimated avoided electricity expenditures
- 20% reduction compared to established baseline (2001)
- 196M kWh reduced
- 124,000 metric tons of CO<sup>2</sup> reduced



# *Highlights of Success*

- **New City Hall is 25% more energy efficient per square foot as compared to the previous City Hall**
- **Piloting new energy efficient technologies across city facilities—lighting, heating systems, fuel cells**
- **Traffic signals converted to LED—avoided electricity expenditures of \$1.67M**
- **Cool roof technologies**
- **City Building Energy Projects Fund established**
- **Partnerships with PG&E**
- **Collaboration with Sustainable Silicon Valley**



# *Key Considerations*

- Ensuring sufficient resources for energy efficiency projects
- Third Party financing and the Use of Energy Service Companies for Energy Efficiency and Solar projects





# Draft Work Plan FY 2007-08

## Policy Coordination

Work with the Transportation and Environment Committee to ensure energy policies and actions are coordinated with overall City Policies and Direction

- Present the proposed 2007-08 Sustainable Energy Policy Report and Action Plan



# Draft Work Plan FY 2007-08

## *Sustainable Energy Policies Implementation*

**Build upon the current energy successes and ensure continued implementation of the City's Sustainable Energy Policy Goals**

**Work with the City's Interdepartmental Energy Team to establish appropriate energy action plans for FY2007-08**





# Draft Work Plan FY 2007-08

## *Sustainable Energy Policies Implementation*

- **Goal I: Lead by example in pursuing the most efficient use of energy in City facilities and activities**
- **Goal II: Explore opportunities to improve energy reliability, supply and price stability to meet current and future energy needs**
- **Goal III: Promote collaboration on energy issues**
- **Goal IV: Promote and achieve a cleaner and healthier environment, including improving air quality and reducing greenhouse gas emissions**
- **Goal V: Encourage the development and use of renewable energy sources and alternative fuels**



# Draft Work Plan FY 2007-08

## *Sustainable Energy Policies Implementation*

**Establish an interdepartmental team to work on key financial issues associated with solar and energy efficiency installations and funding.**

- **Establish process whereby all general fund energy rebates are returned to the City's Building Energy Fund**
- **Continue exploring Energy Service Companies (ESCOs) and other funding sources available through PG&E and the State to achieve energy savings and pursue solar opportunities**
- **Ensure staff resources to audit city facilities and identify financial resources to implement energy projects**

